BRUHATH BANGALORE MAHANAGARA PALIKE

YALAHANKA ELECTRICAL DIVISION

E MEASUREMENT BOOK

Name of work:- Maintenance & Repairs to Existing Park Lightings,etc to the existing Installation in Park at Yelahanka Constituency in Ward no 04.

BRUHATH BANGALORE MAHANAGARA PALIKE

Yalahanka ELECTRICAL DIVISION

PRE MEASUREMENT BOOK

Name of work: :- Maintenance & Repairs to Existing Park Lightings,etc to the existing Installation in Park at Yelahanka Constituency in Ward no 04.

Name of Contractror of nature of Agency:-M/s Praveen Enterprises

Job Code No:- 004-19-000053

Ref no and Date of commencement of work:-EE(YND)/E-PMT-CP/WO/000014/ 2019-20Date:-08/07/2019

Measurement Book No: **Page No:**

Bill NO :-

Sl. No.	Description of item	Unit	Present Measurements		
			Qty	Tender Full Rate	Cost
1	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II. LED Streetlight 24watts		31	4200.00	130200.00
1	Supplying & fixing of 32 mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. Using 32mm dia G.I pipe	Nos	31	535.00	16585.00
2	Transporting and erecting of 3.5 Mtrs long Swged Tubelor park poles including Digging of pit 45x45x100cms & providing 1:2:4 concrete of size 35x35x130 cms Including coping as per the detaild enclosed civil estimate & drawimg Basavalingappa Park	Nos	5	583.00	2915.00
3	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	Mtrs	497	100.00	49700.00

4	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	Mtrs	497	5.00	2485.00
	Basavalingappa Park, Yelahanka				
	04/BP/26/MV TO New Pole 1 22 Mtrs				
	New Pole 1 TO New Pole 2 23 Mtrs				
	New Pole 2 TO New Pole 3 18 Mtrs				
	New Pole 3 TO 04/BP/07/MV 13 Mtrs				
	04/BP/30/MV TO New Pole 4 21 Mtrs				
	New Pole 5 TO 04/BP/04/MV 23 Mtrs				
	04/BP/27/MH TO Panel Box 15 Mtrs				
	Nadaprabhu Kempe Gowda Park				
	04/KP/64/MV TO 04/KP/66/MV 16 Mtrs				
	04/KP/14/MV TO 04/KP/16/MV 19 Mtrs				
	04/KP/16/MV TO 04/KP/19/MV 19 Mtrs				
	04/KP/21/MV TO 04/KP/20/MV 13 Mtrs				
	Near Apoorva Hospital, BB Road, Yelahanka 8 Mtrs				
	04/KP/18/MV TO 04/KP/15/MV 22 Mtrs				
	04/KP/02/MV TO Panel Box 5 Mtrs				
	04/KP/73/MV TO Panel Box 5 Mtrs				
	Vishwaguru Sri Basavanna Park				
	04/NP/29/MH TO New 28 Mtrs				
	04/NP/30/MV TO New 23 Mtrs				
	New TO New 25 Mtrs				
	New TO New 20 Mtrs				
	New TO New 22 Mtrs				
	New TO New 25 Mtrs				
	New TO New 19 Mtrs				
	New TO New 19 Mtrs				
	New TO 04/NP/47/MV 18 Mtrs				
	Manjunathanagara, Near Elements Mall, Thanisandra Main Road 22 Mtrs				
	Saraipalya, Near Udupi Thindis, Thanisandra Main Road 8Mtrs				
	Ashwathnagara, Near Shell Petrol Bunk, Thanisandra Main Road 8 Mtrs				
	Total 499 mtrs				
5	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc. complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)	Mtrs	470	46.00	21620.00
6	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring.I Group A Materials.b)1.5 sqmm	Mtrs	190	10.00	1900.00
7	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	Nos	4	5900.00	23600.00
	Near Apoorva Hospital, BB Road, Yelahanka				
	Near Supereme Timber Traders, Kogilu Main Road,				
	Kogilu Layout ToKogilu Main Road, Yelahanka				
	Agrahara Layout, Yelahanka				

8	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and Complete wiring as required confirming IEC 60898. 6) 40-63 Amps TPN	Nos	8	1161.00	9288.00
9	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	Mtrs	20	79.00	1580.00
10	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Mtrs	24	157.00	3768.00
11	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with necessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Sqcm	98650	0.30	29595.00
12	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps 25kA.	Nos	4	3500.00	14000.00
13	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.63Amps	Nos	12	140.00	1680.00
14	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and waqshers etc.. Group A, PWD Elec SR 2006-07.	Nos	4	2520.00	10080.00
15	KSRB 4-1 .1: Providing and laying in position plain cement concrete of cum 5,004.00 mix 1 :2:4 with ope cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates O.B7Bcum and fine aggregates @0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials,labour, HOM of machinery, curing complete as per specifications Specification No. KBS 4.1, 4.2	Cumt	1	4100.00	4100.00
	TOTAL Rs				**323096.00**

CERTIFICATE:

1.This is certify that the work done is saticefactorily.
2.This is certify that the bill amount calimed in this bill does not claimed in any of the previous bill.

Junior Engineer(Elec)
Yalahanka Division

Asst.Exe.Engineer(Elec)
Yalahanka Division

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byatarayanapura, Bangalore-92